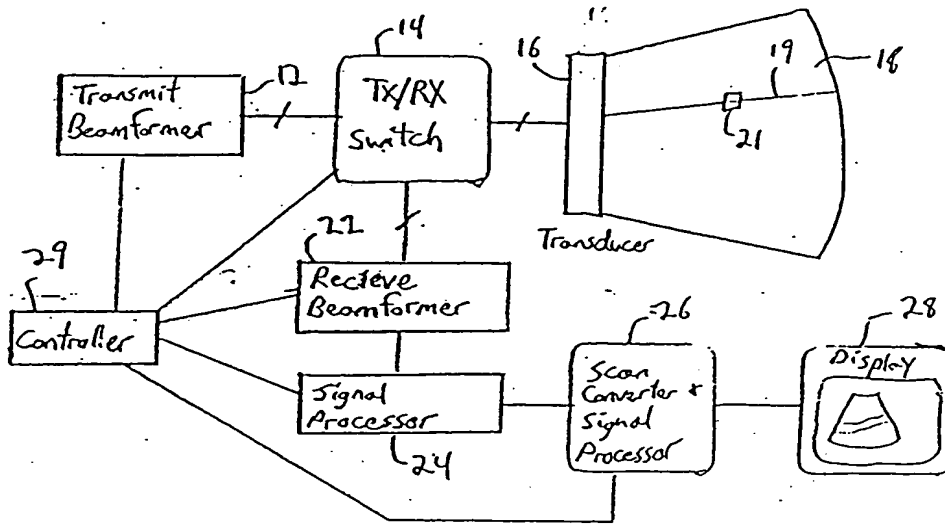


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FIG. 1

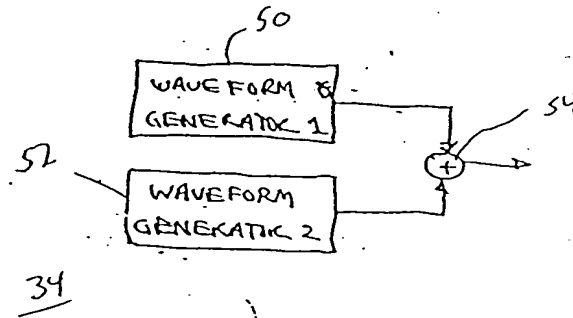
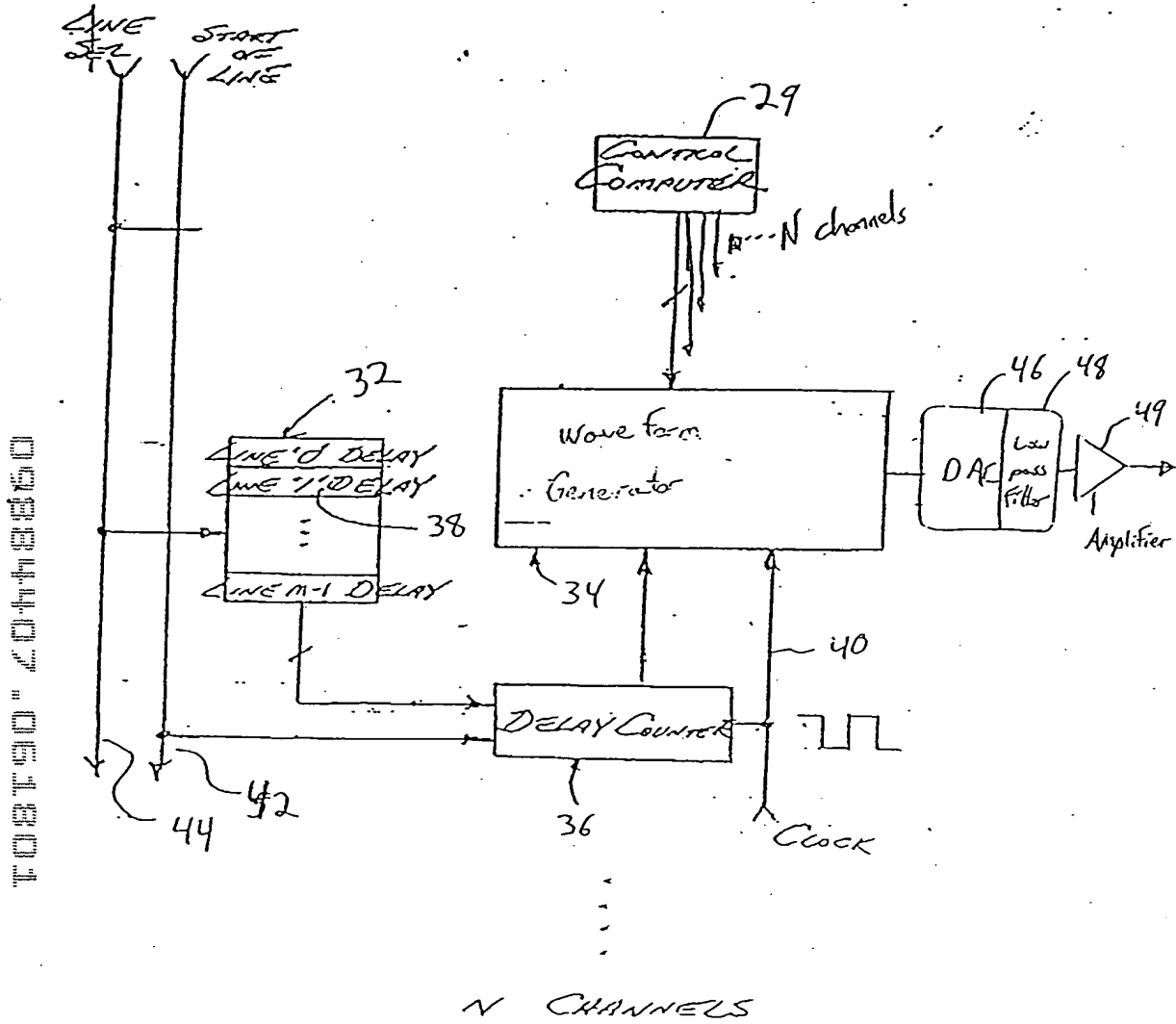


FIG. 3

FIGURE 2



30 (TRANSIENT BEAMFORMING)

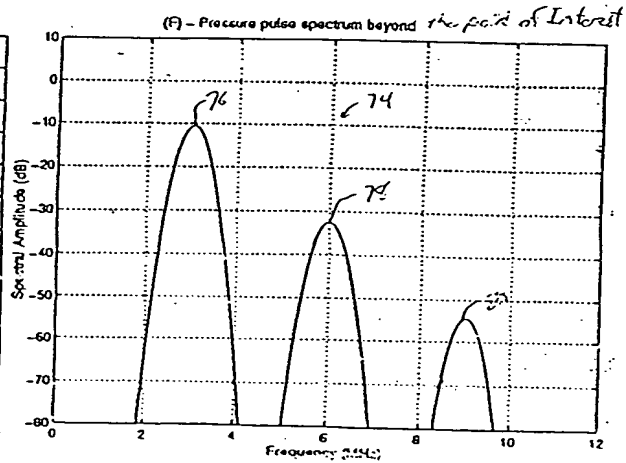
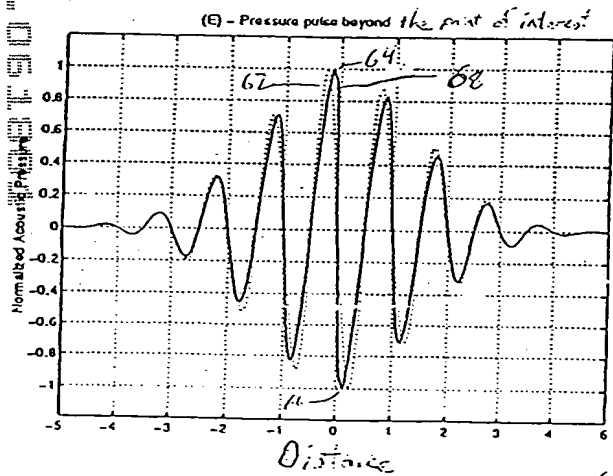
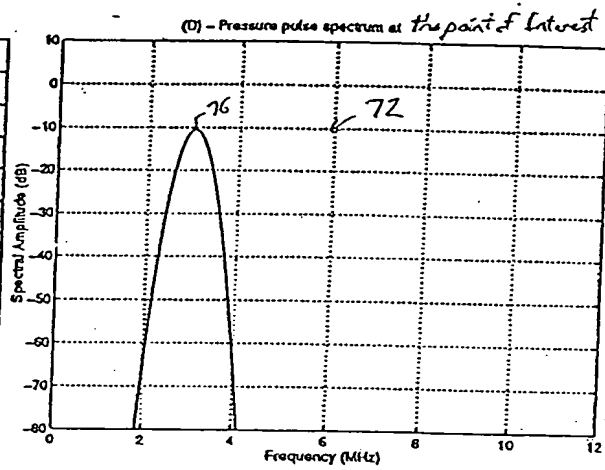
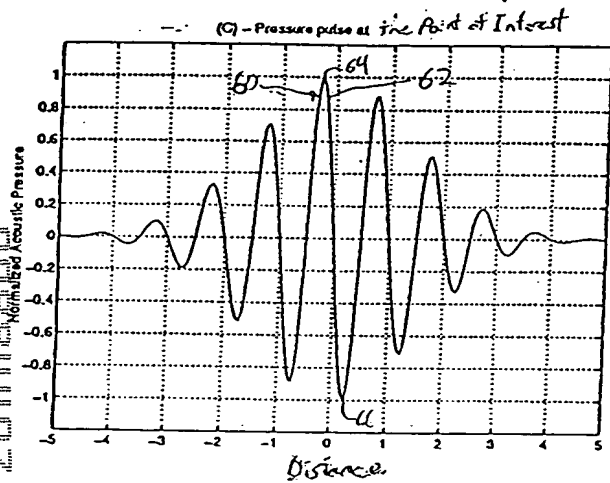
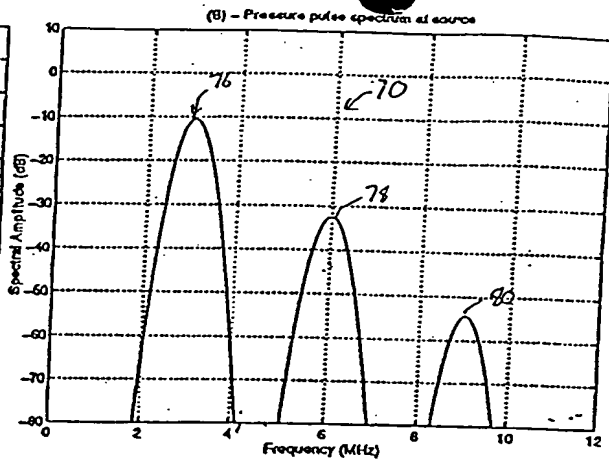
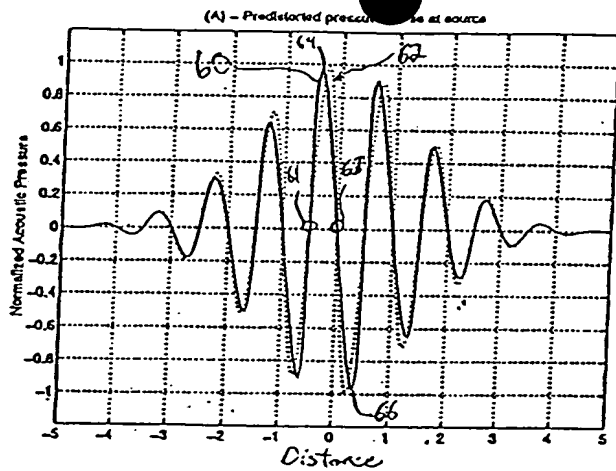
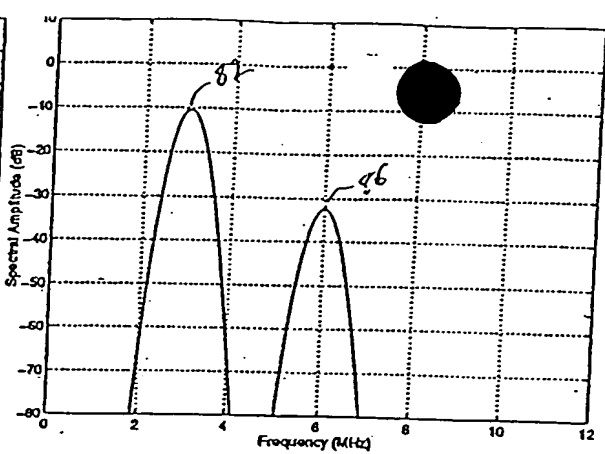
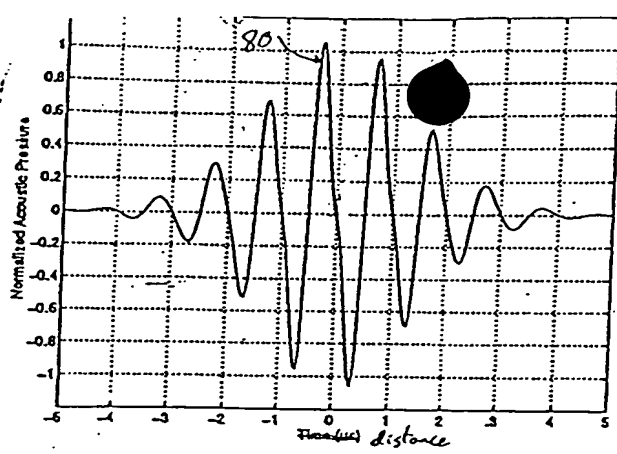


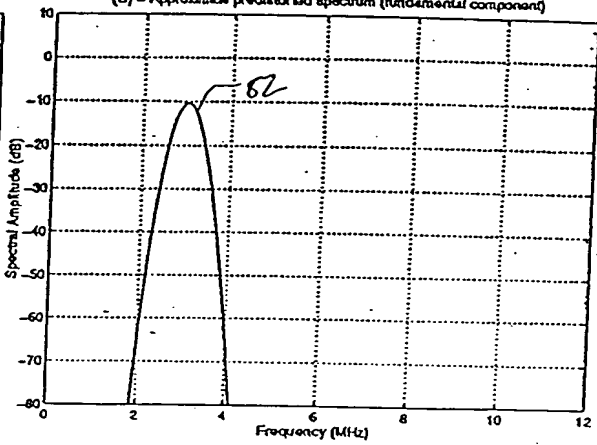
FIG. 4



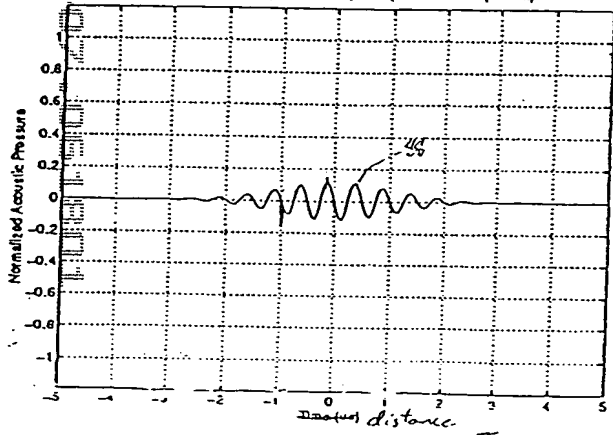
(C) - Approximate predistorted pulse (fundamental component)



(D) - Approximate predistorted spectrum (fundamental component)



(E) - Approximate predistorted pulse (harmonic component)



(F) - Approximate predistorted spectrum (harmonic component)

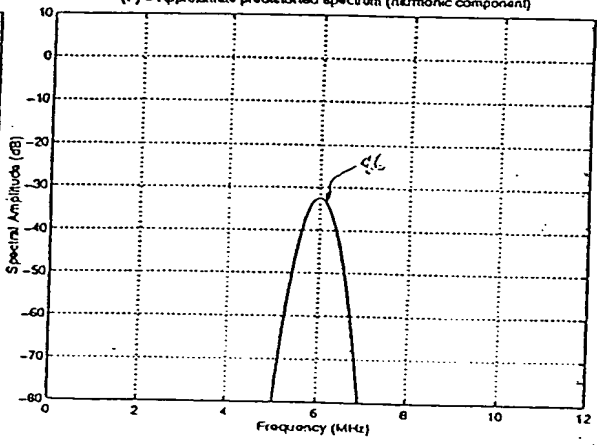


FIG. 5

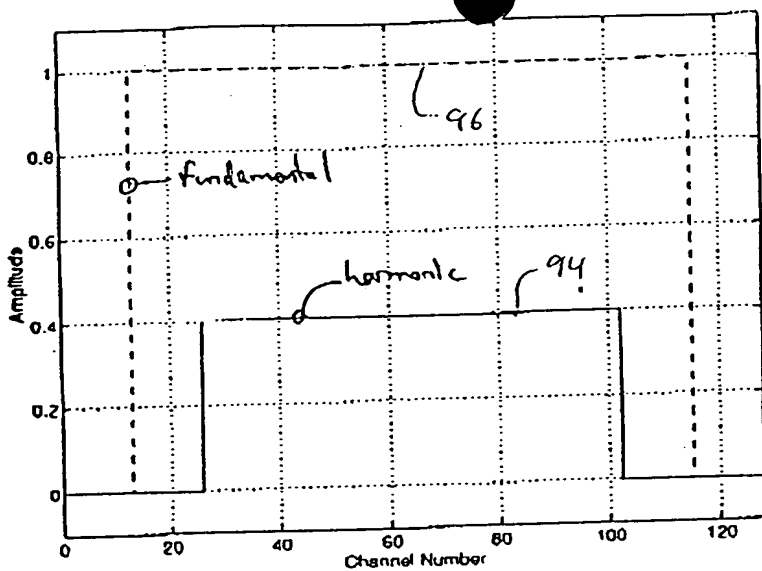


FIG. 6A

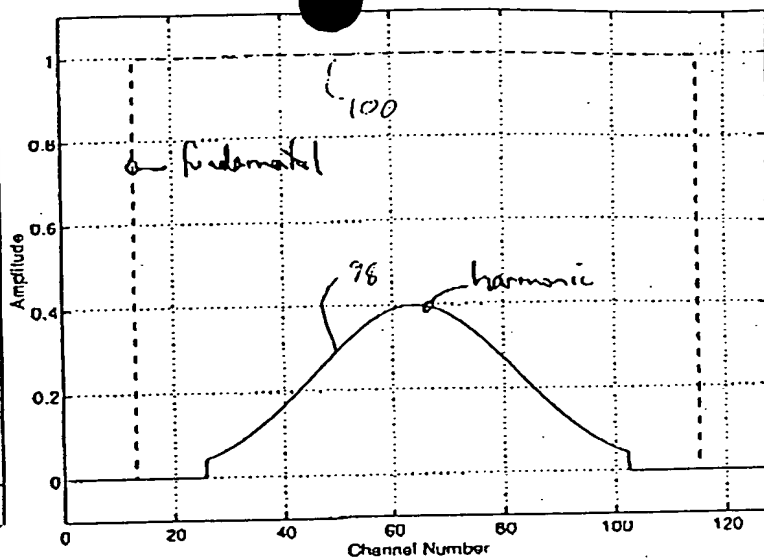


FIG. 6B

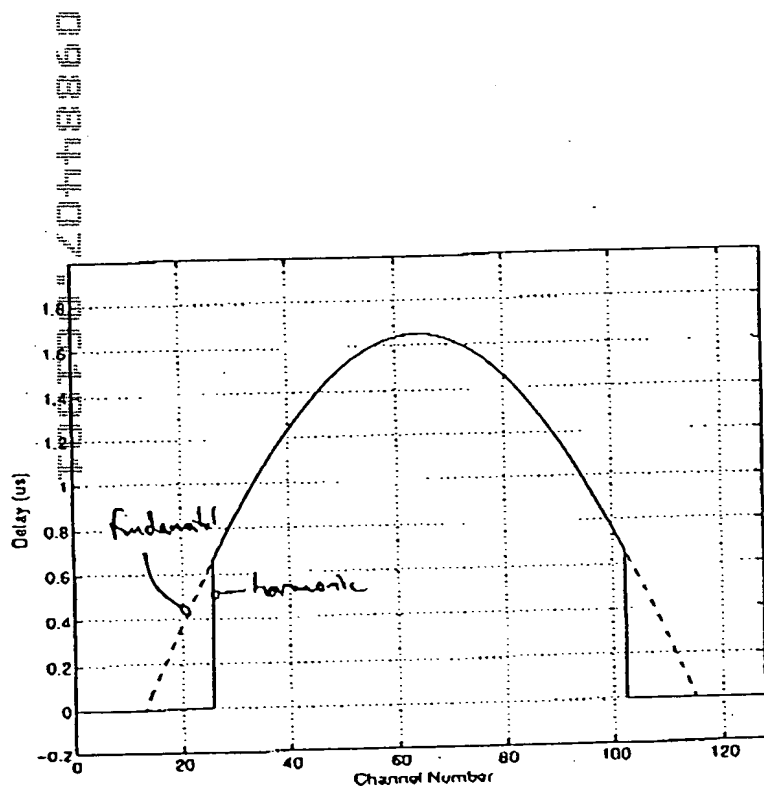


FIG. 6C

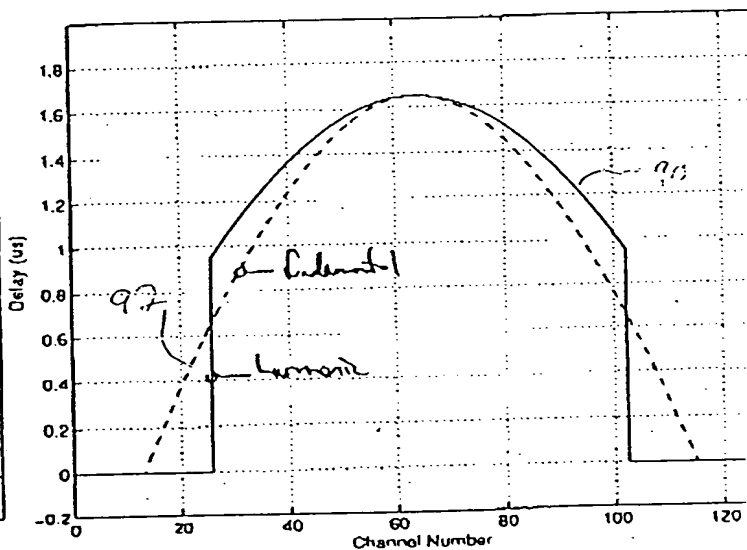


FIG. 6D

FIG. 6

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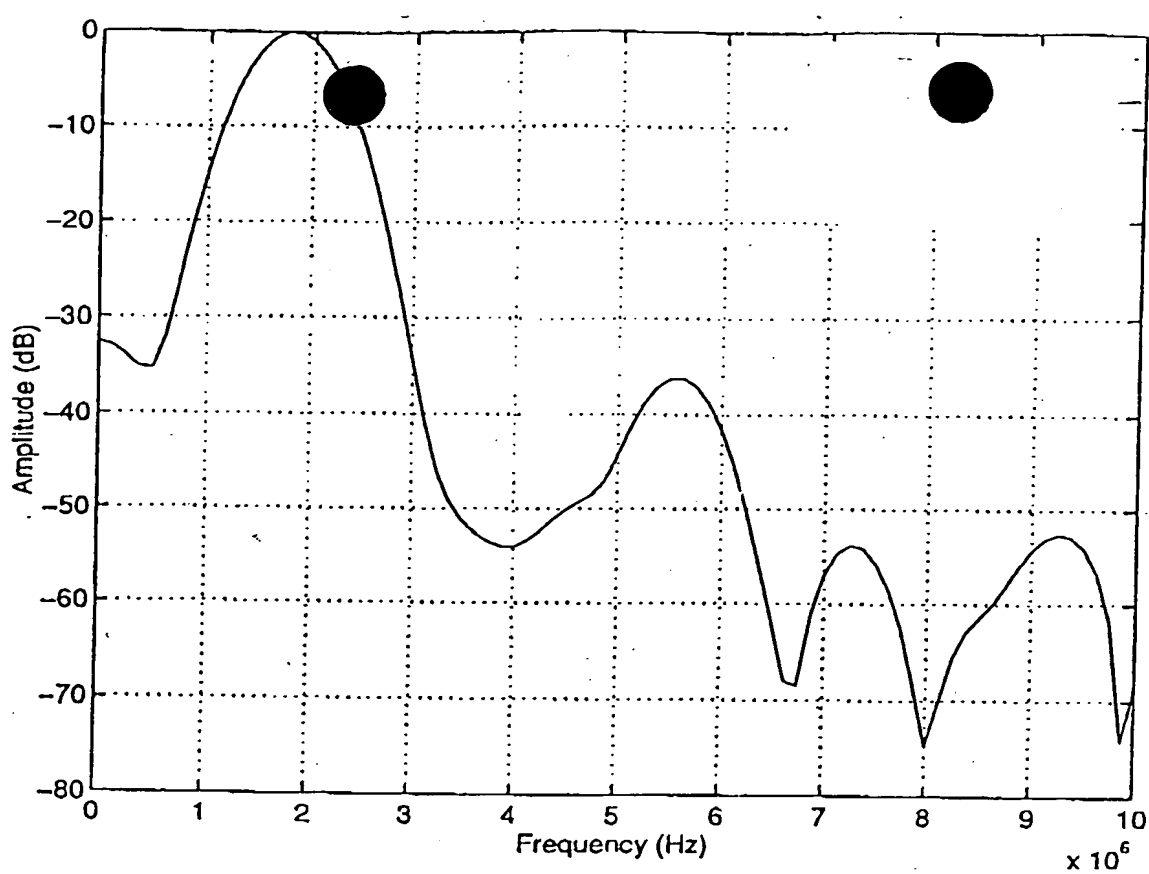


Figure 7A

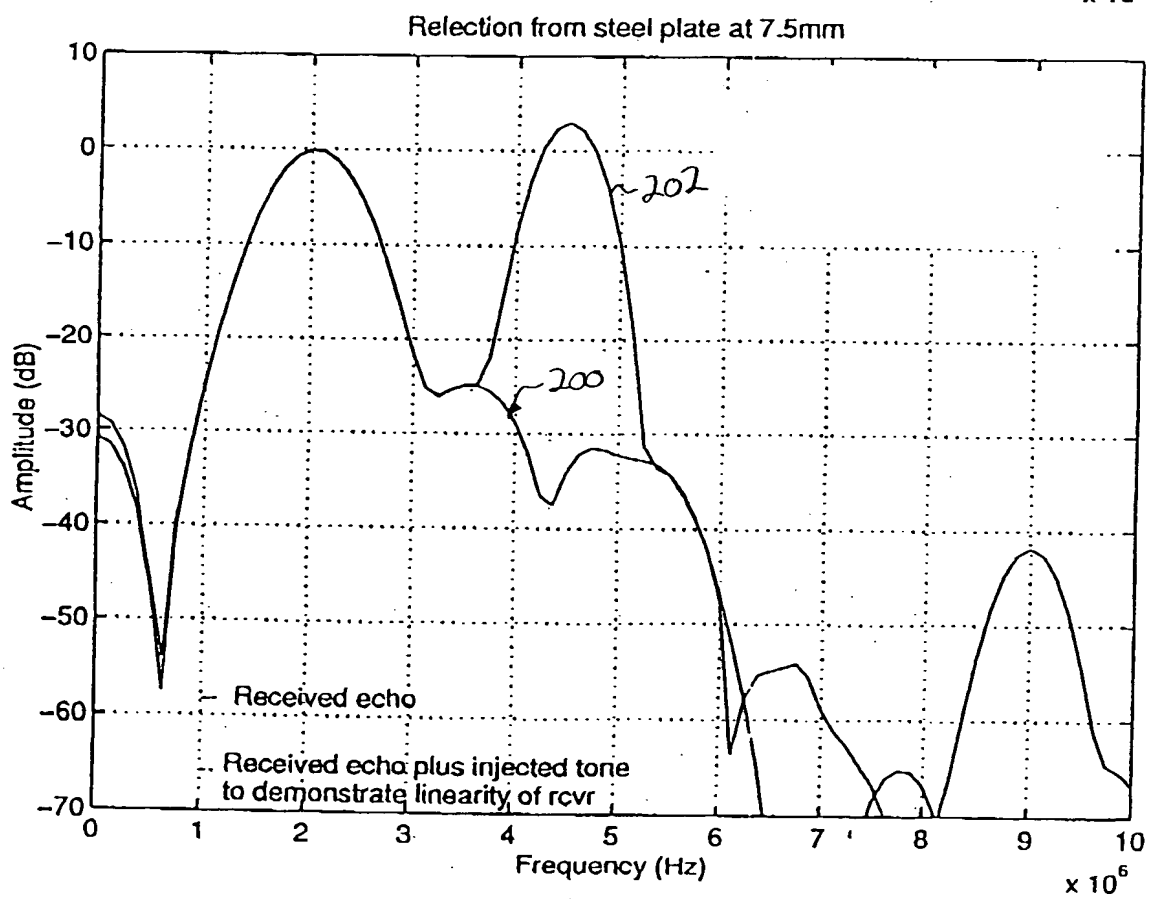


Figure 7B

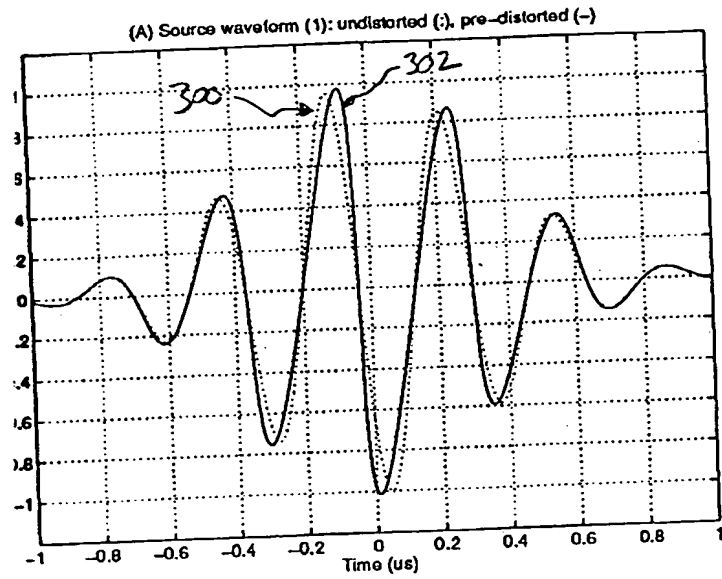


Figure 8A

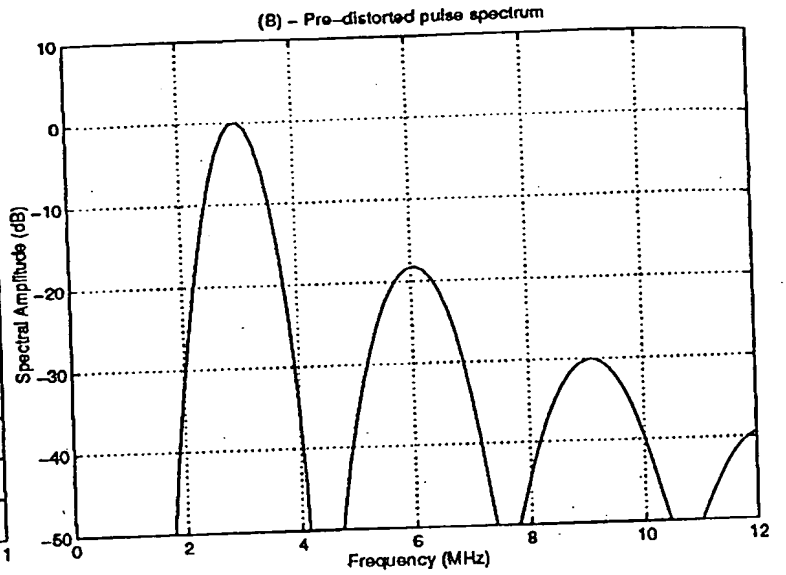


Figure 8B

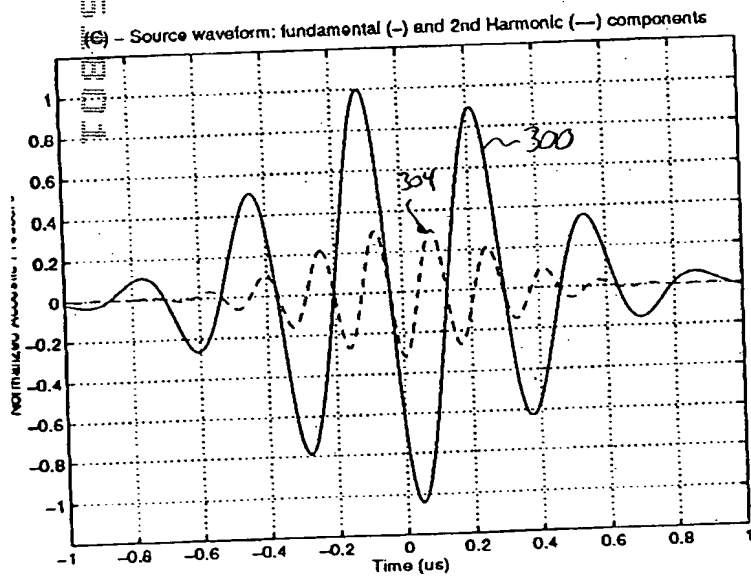


Figure 8C

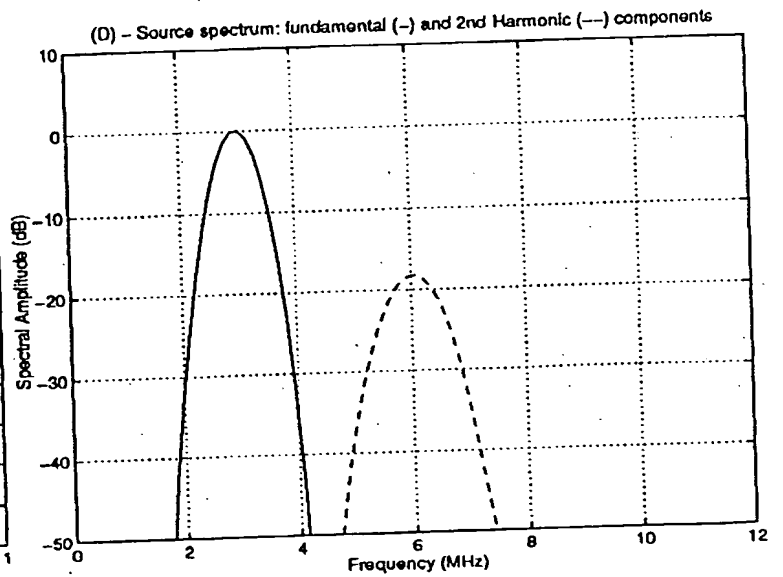


Figure 8D

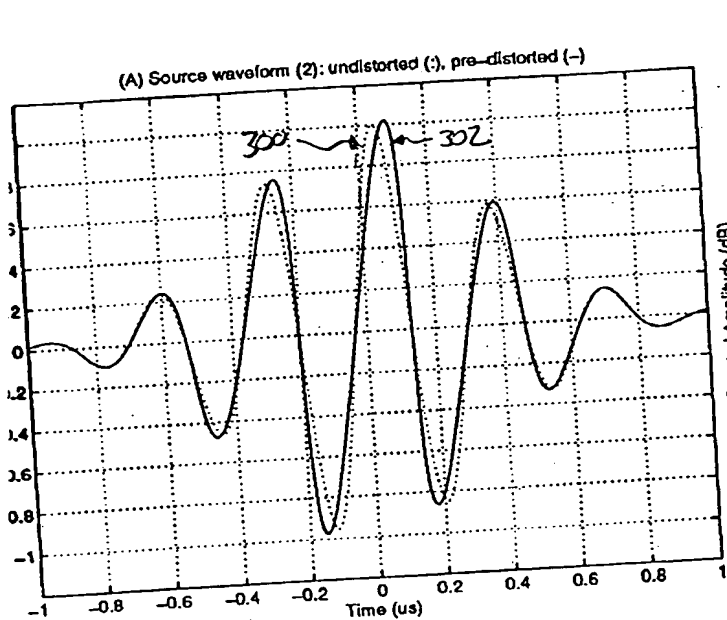


Figure 9A

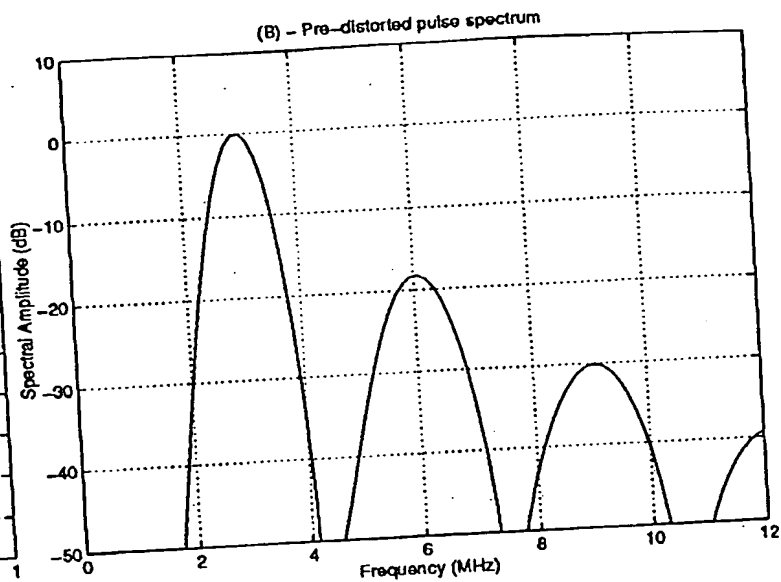


Figure 9B

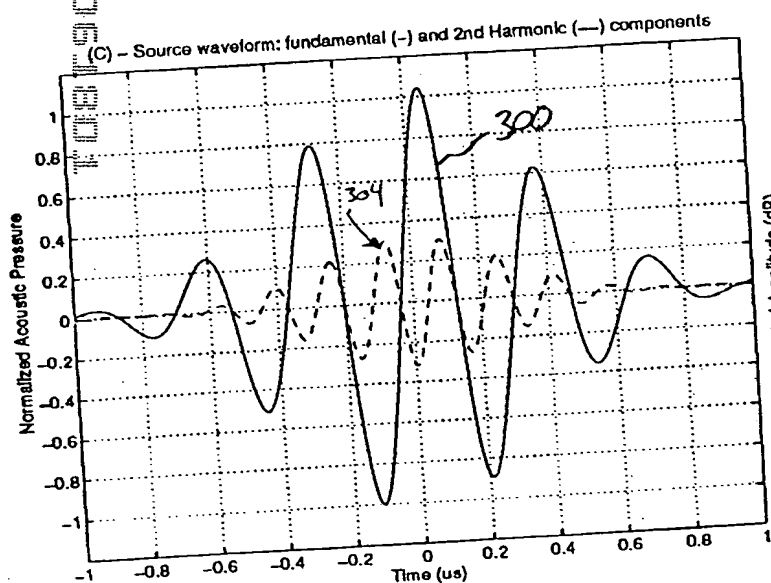


Figure 9C

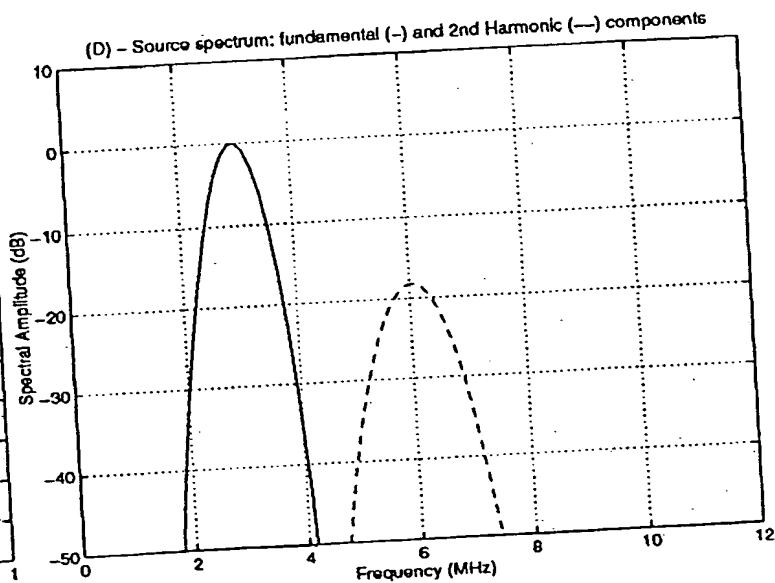


Figure 9D

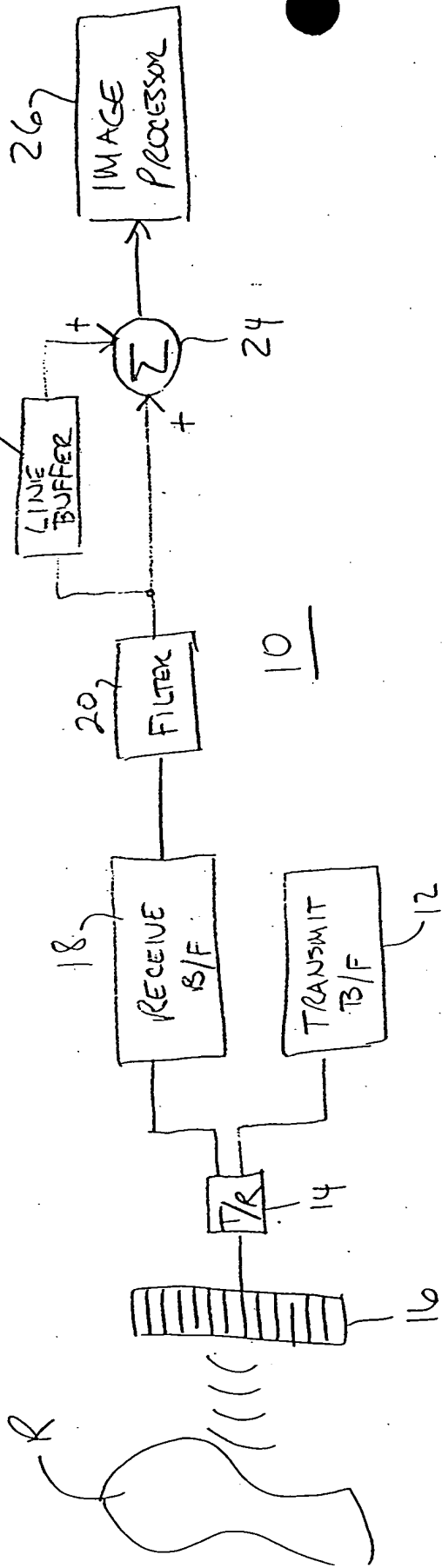


FIG 10



Fig 11a

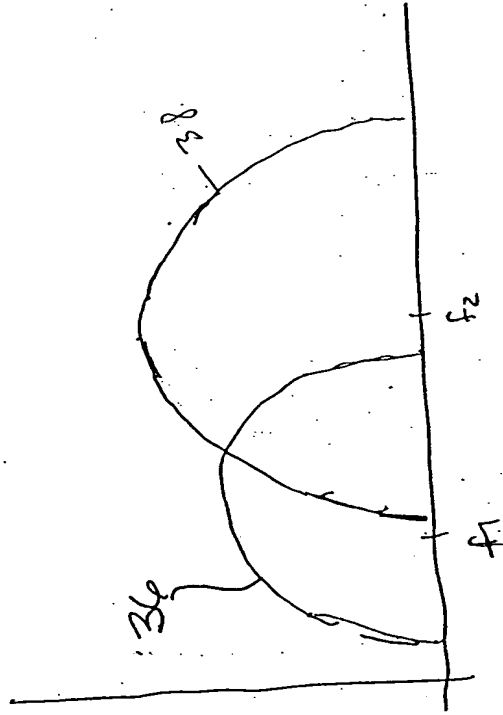


Fig 11b

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FUNDAMENTAL

EVEN HARMONICS

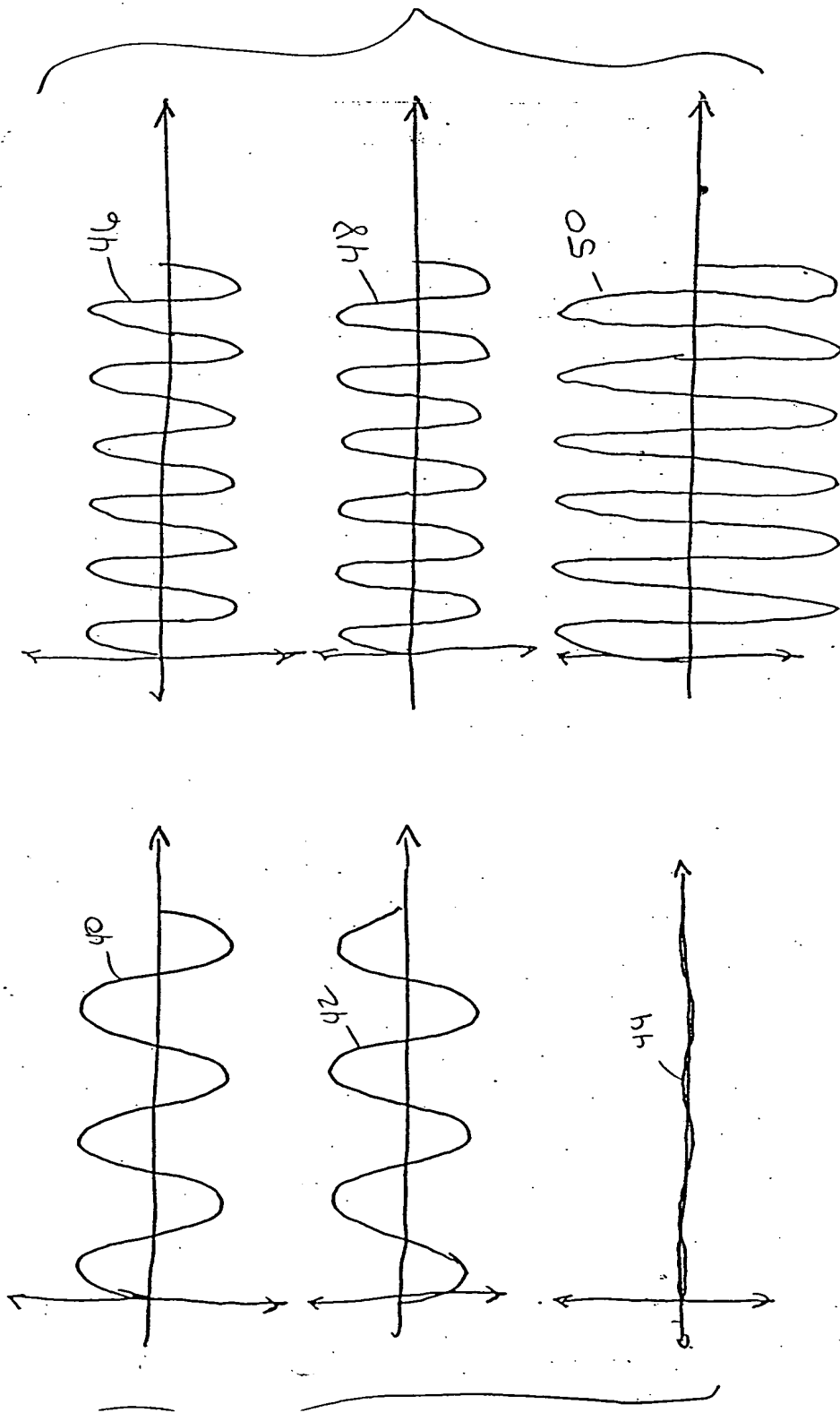


Fig 12b

Fig 12a

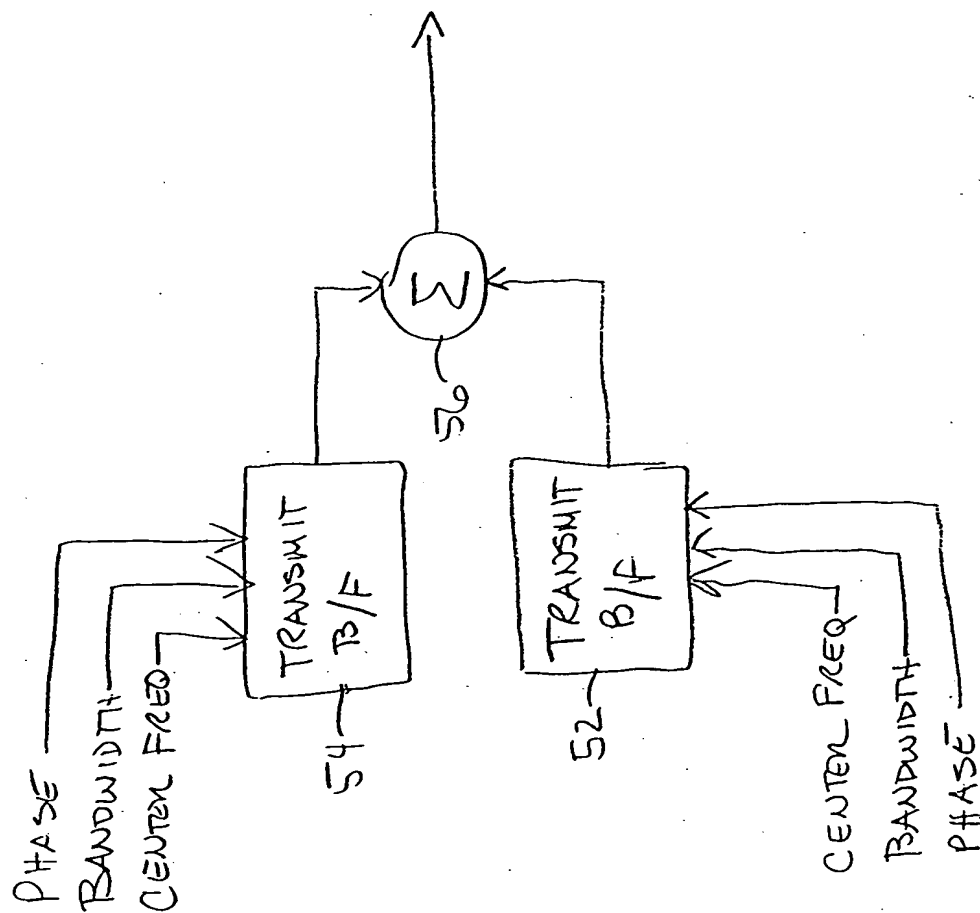


FIG 13

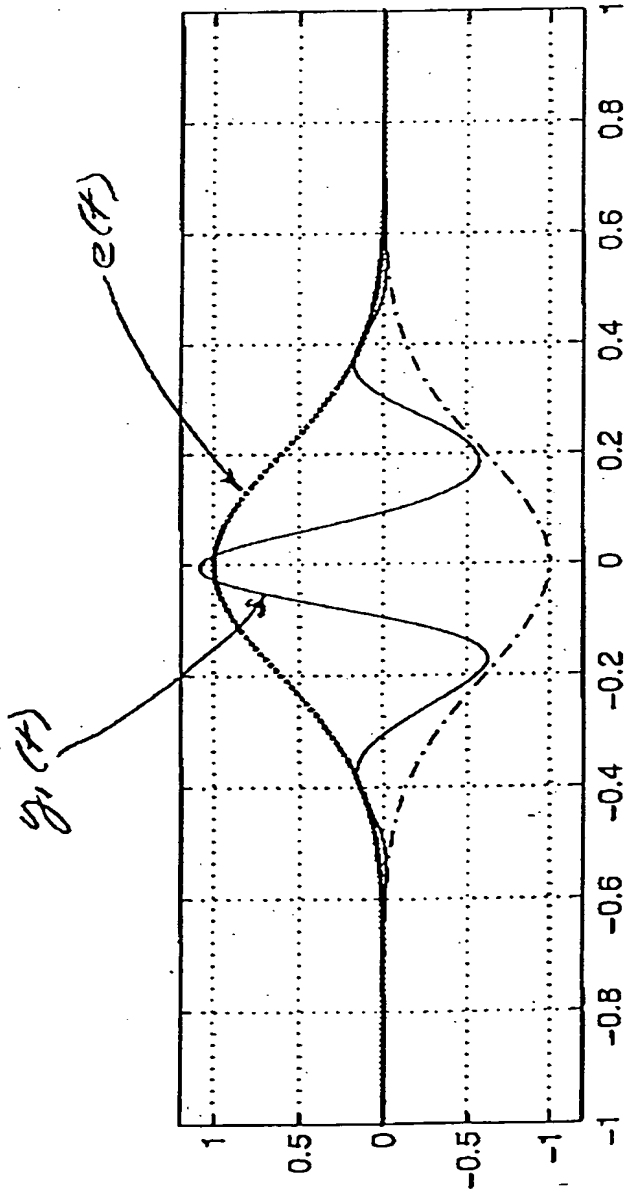


Fig 14

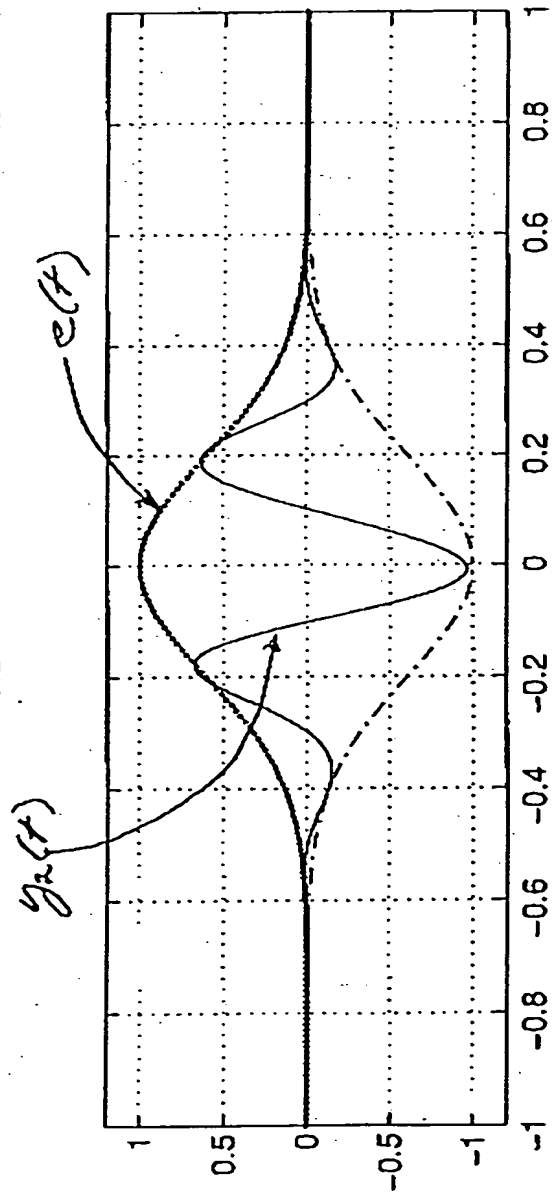


Fig 15

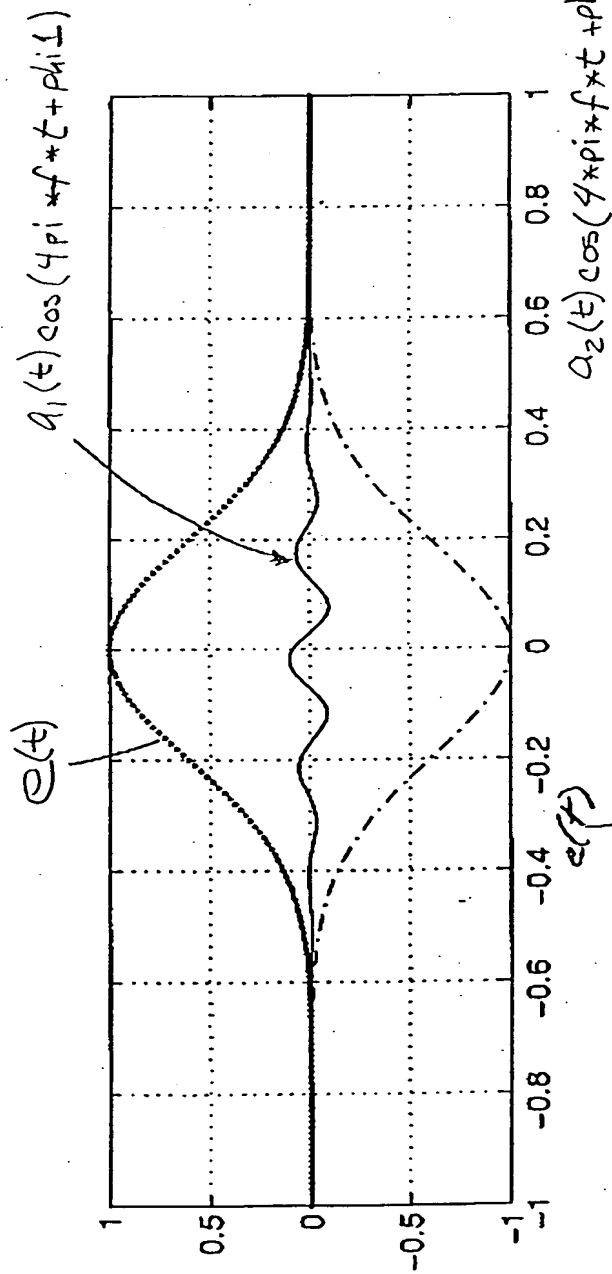


Fig 16

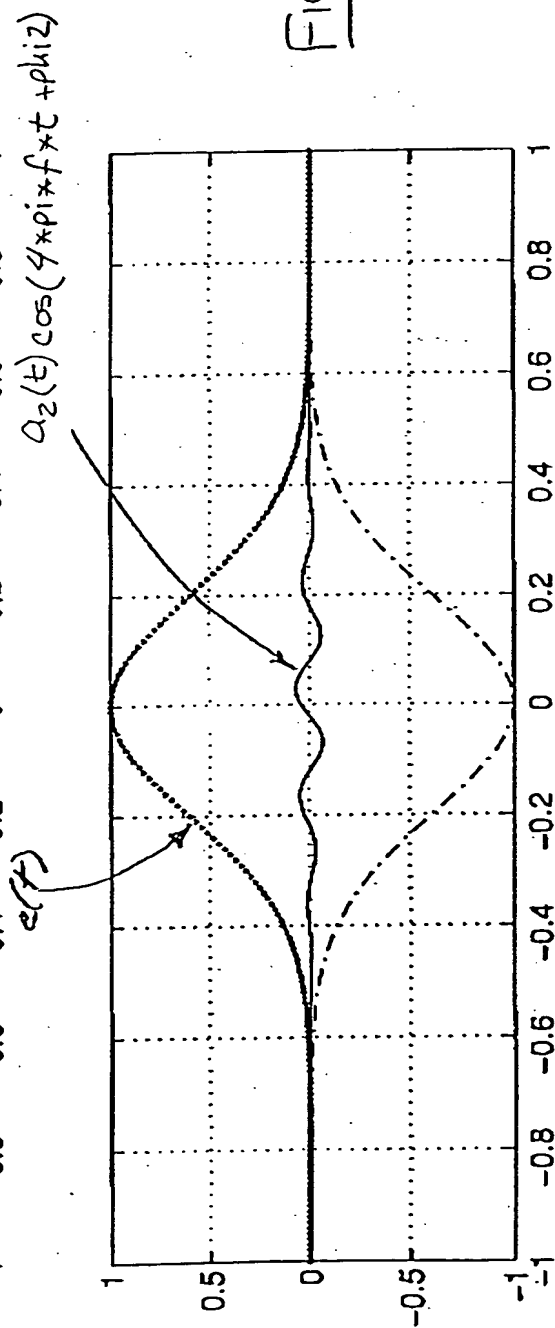


Fig 17

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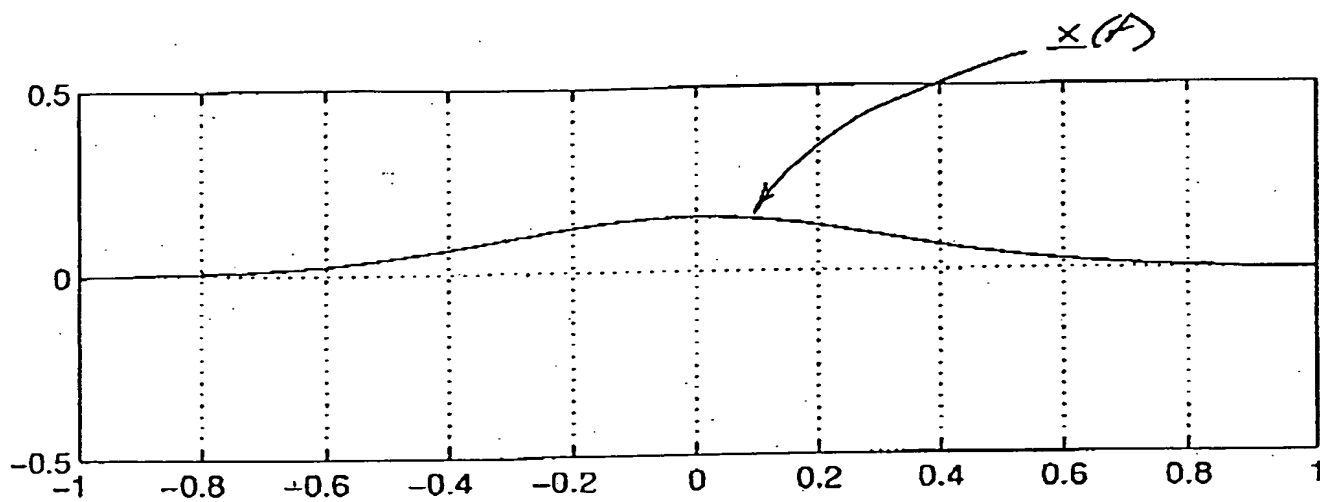


FIG 18

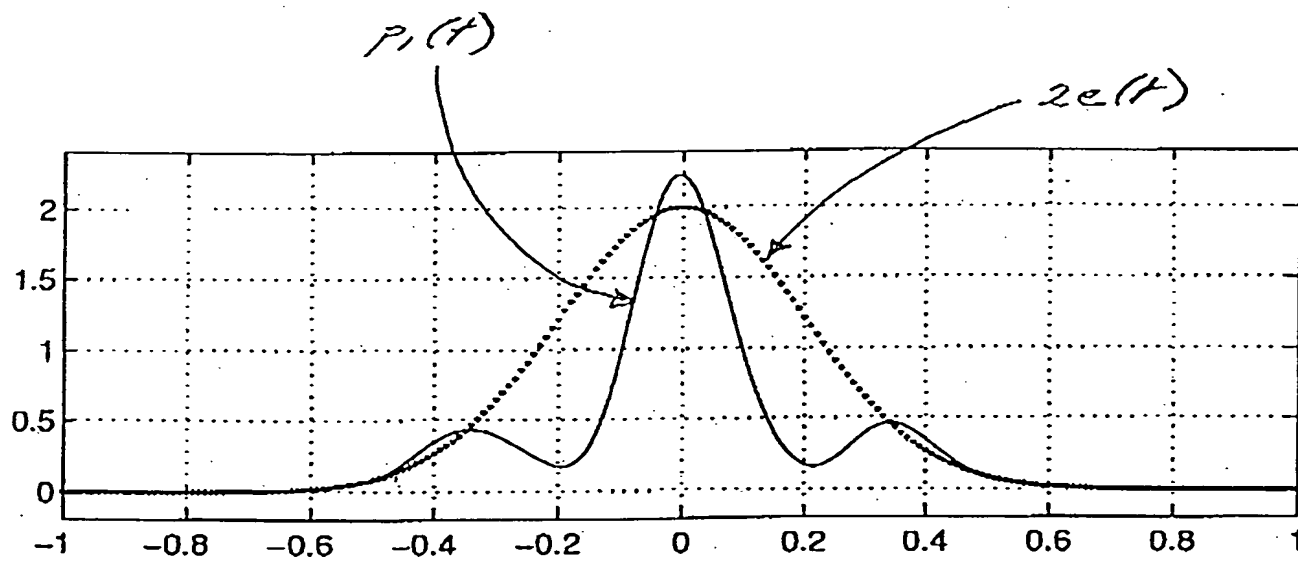


FIG 19

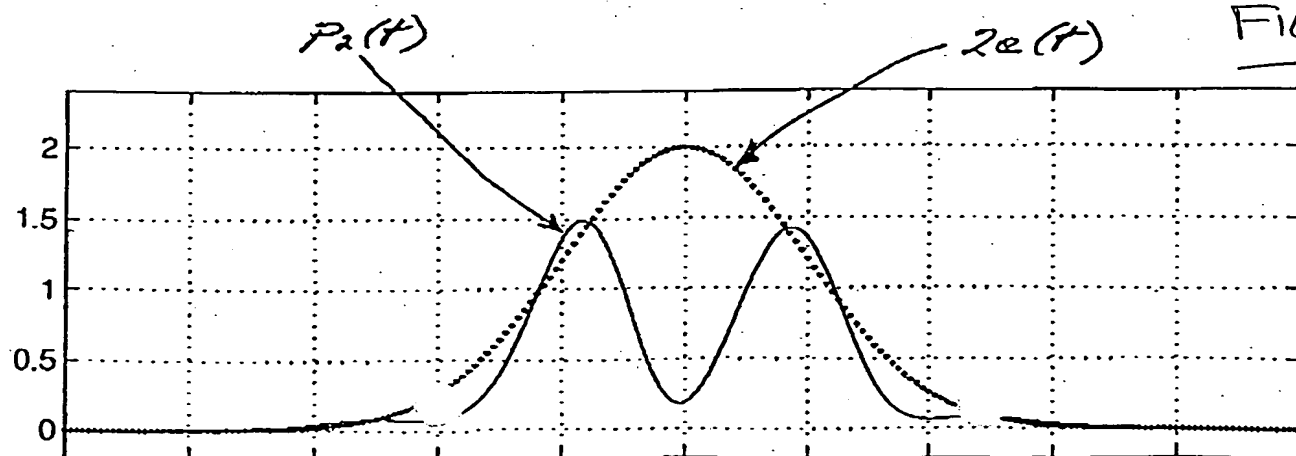


FIG 20

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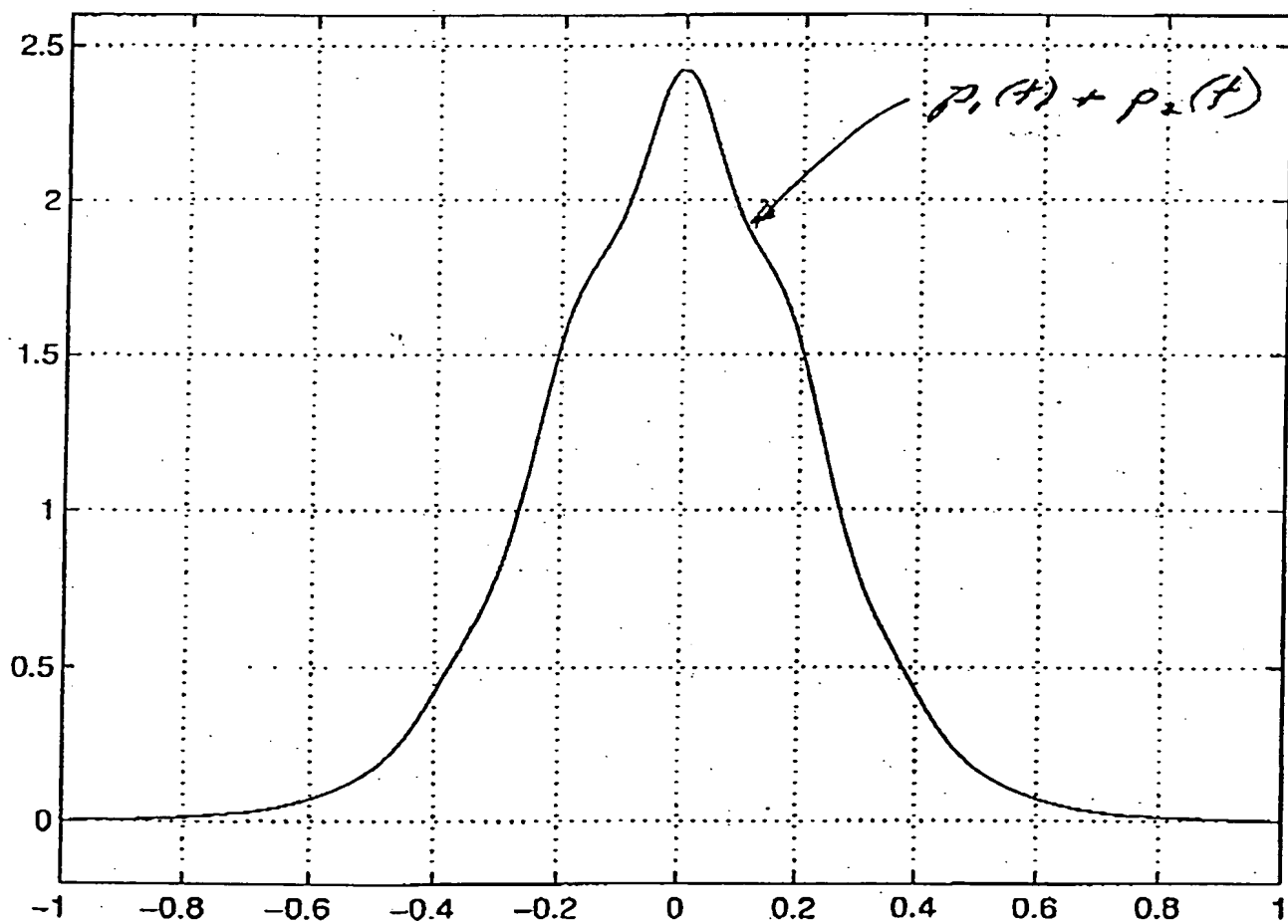


Fig 21

09834407 061801

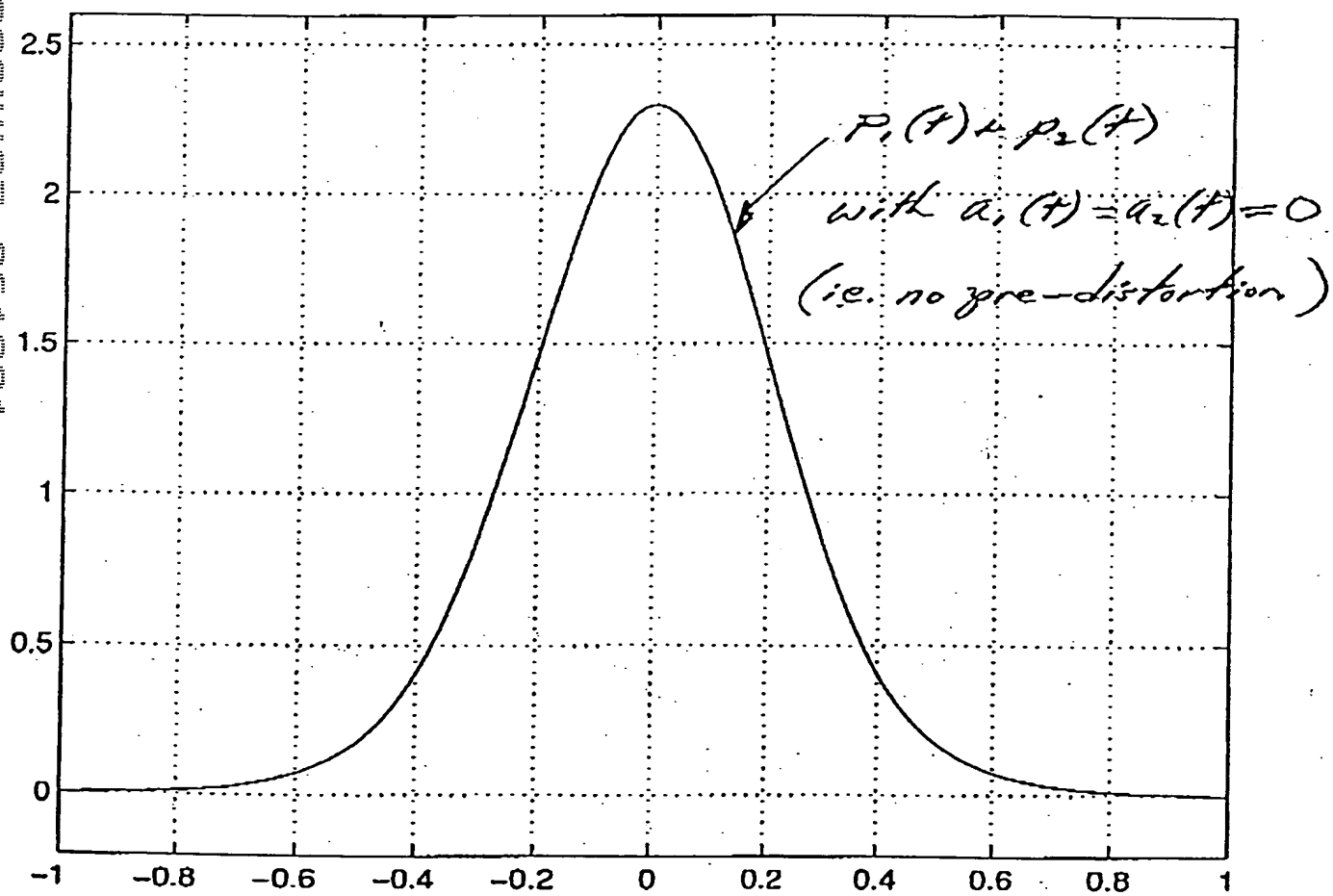


FIG 22

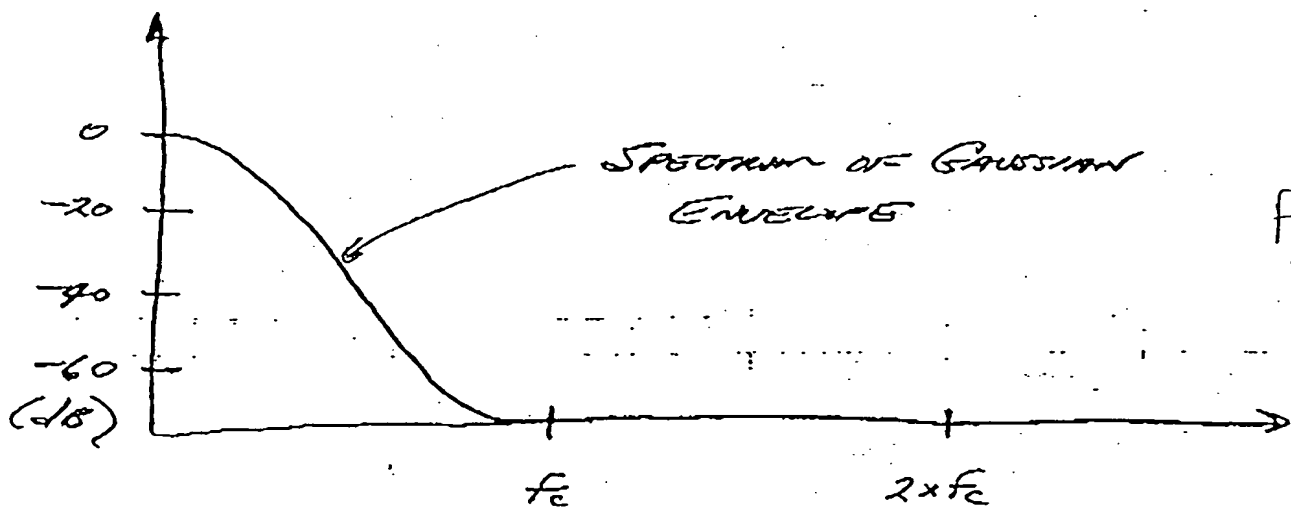


FIG 23

TYPICAL SPECTRUM OF UNIPOLAR PULSE $p_1(t)$ OR $p_2(t)$

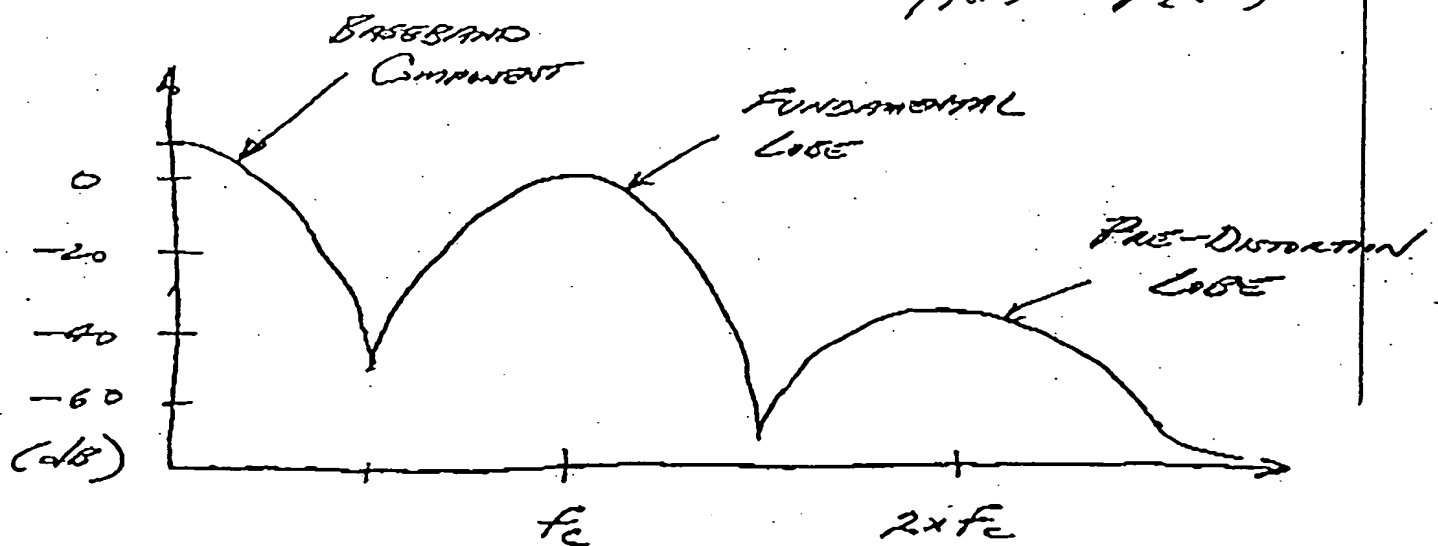


FIG 24

0964-0704(200801)10:01;1-B

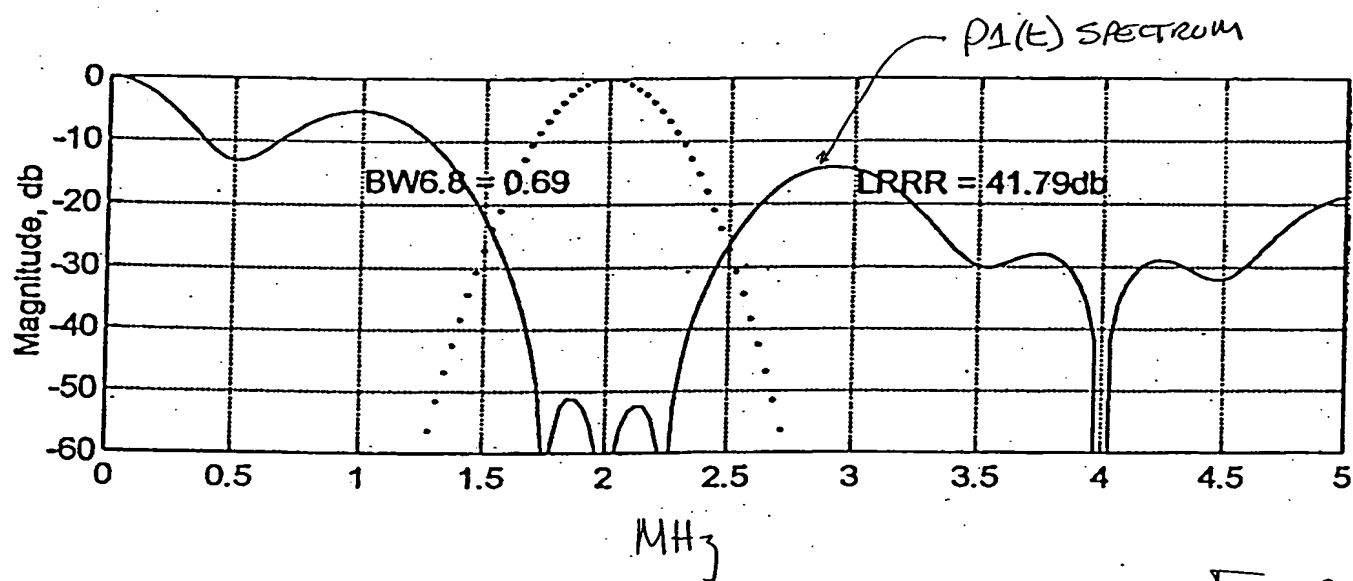
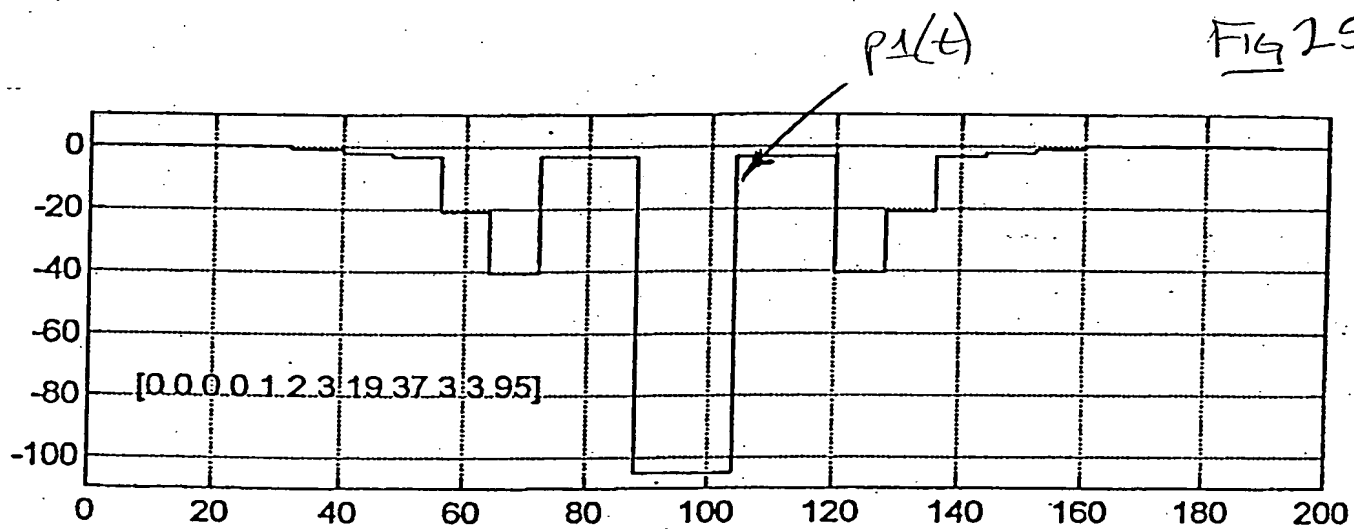


Fig: 26

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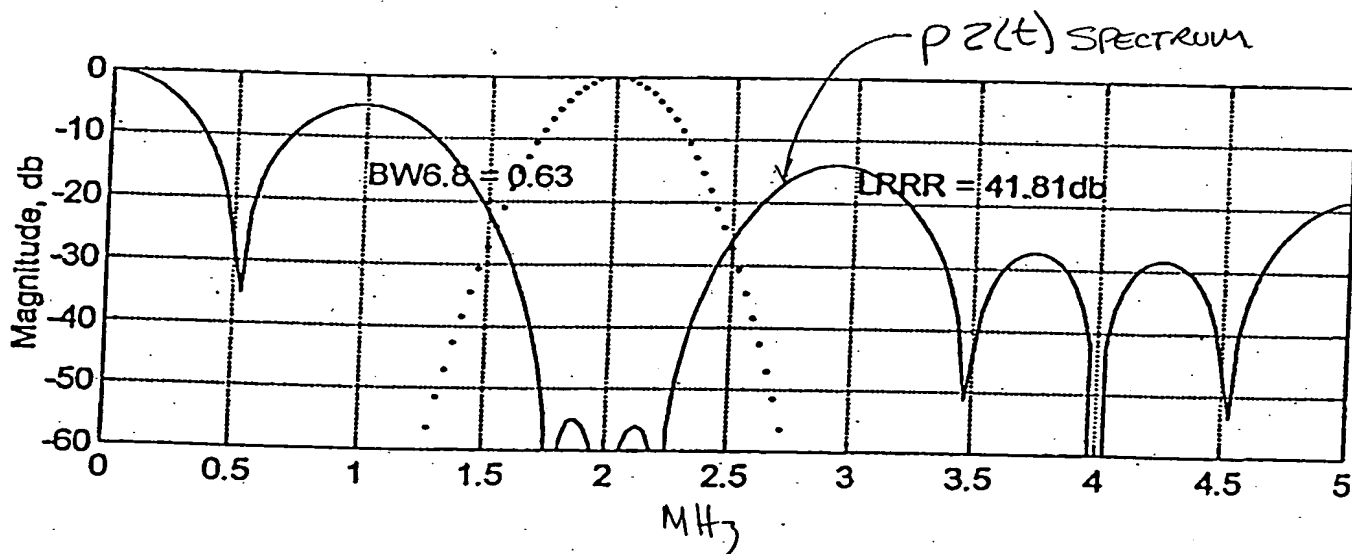
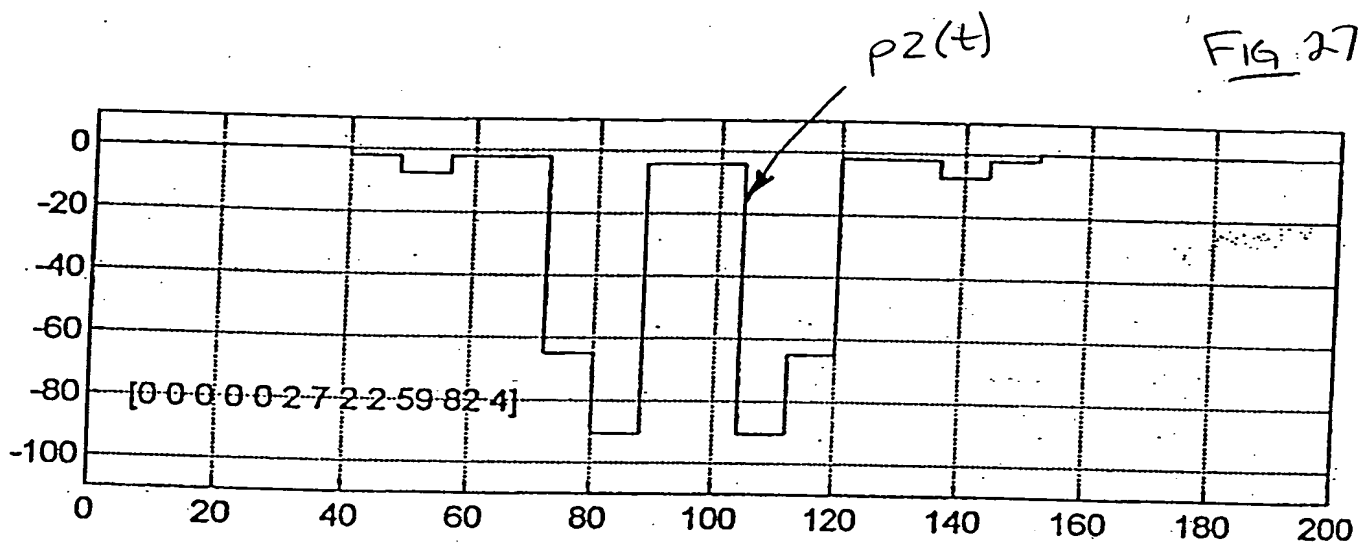


FIG 28

FIG 29 2044360

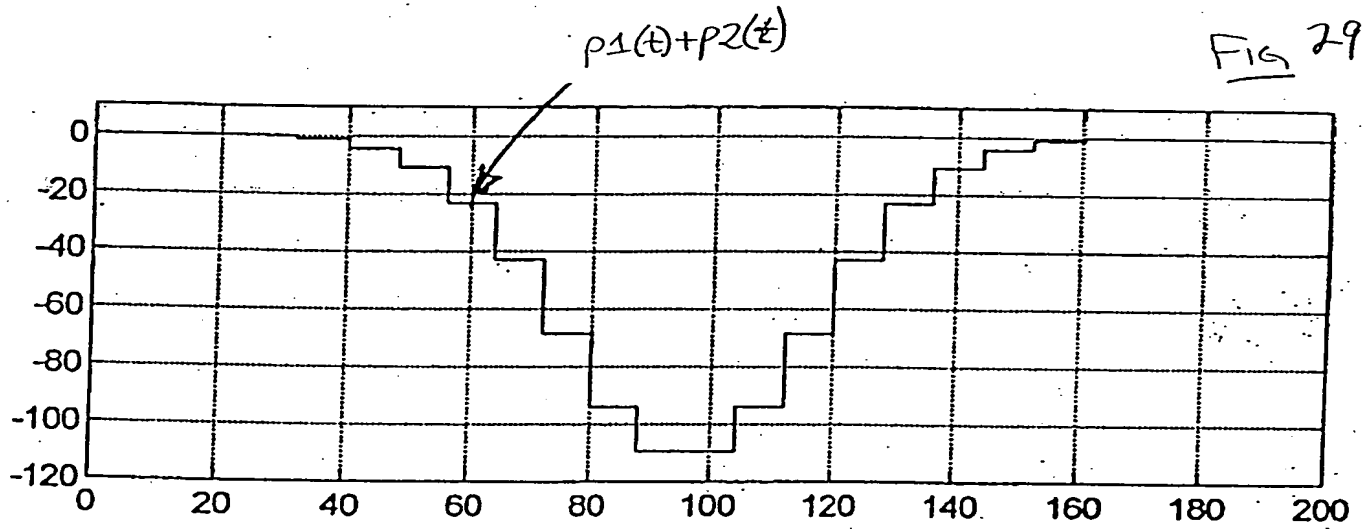
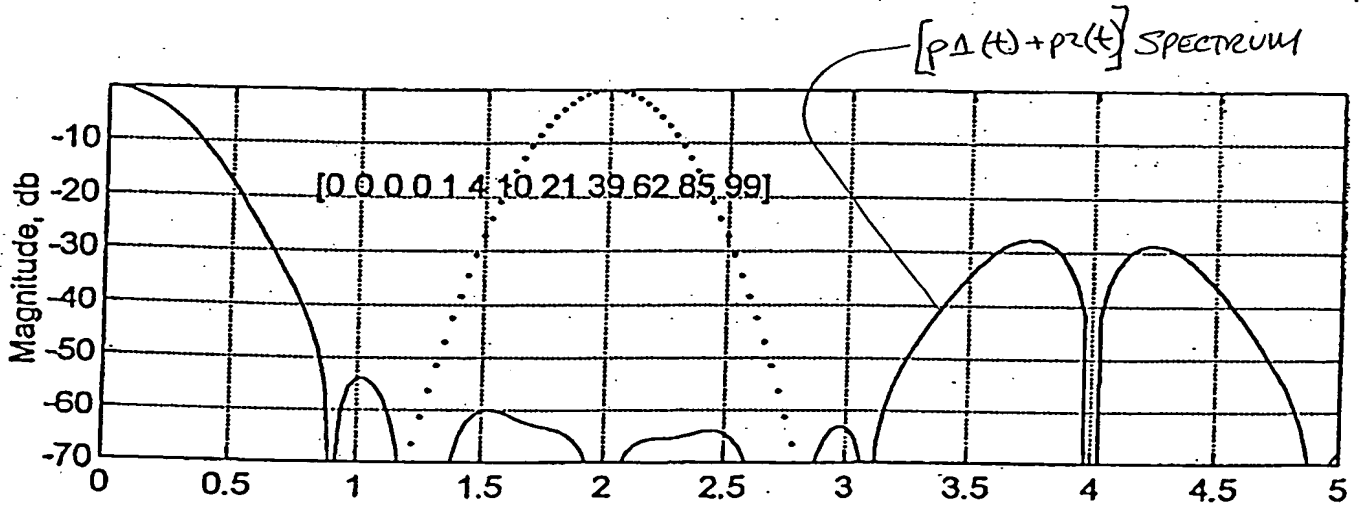


Fig 29



MHz

Fig 30

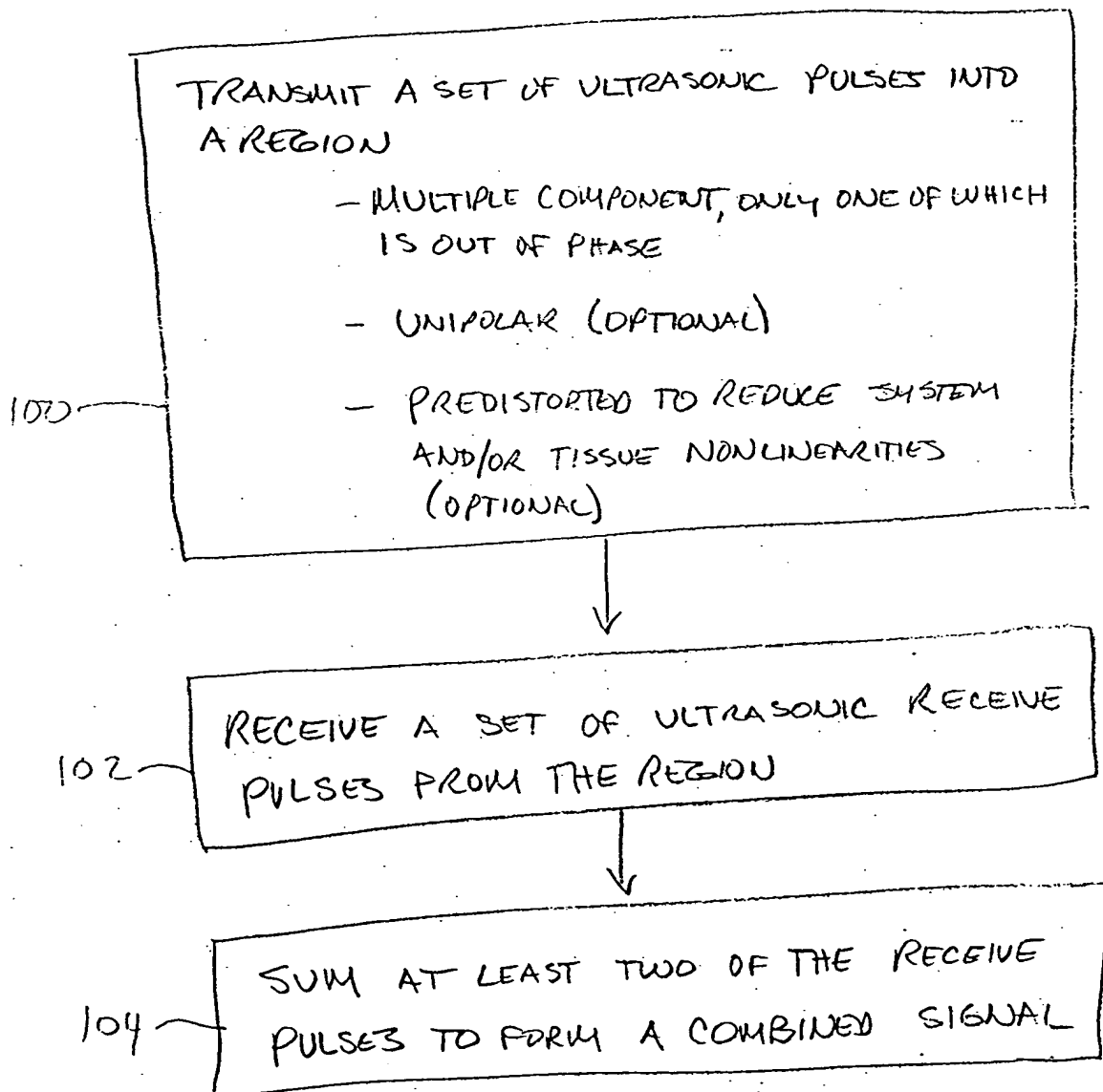


FIG 31